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Triangularizability and Triangular Operator Algebras

The relationship between the following two different notions of triangularization is discussed: leaving the subspaces in a maximal subspace chain invariant, and being contained in a triangular operator algebra in the sense of Kadison and Singer. While neither implies the other in general, it is shown that they are equivalent in the case of collections of finite rank operators. For collections of compact operators, the first implies the second, and the converse is an open question.